Saxon, an imprint of HMH Supplemental Publishers Inc.

**Saxon Math Algebra 2, 4th Edition – Student Edition**

Hardbound textbook. Prepares students for Calculus & includes embedded geometry instruction. Reinforces trigonometry concepts & provides practice with statistics. Real-world problems and applications for other subjects are included.

This program correlates to the KY State Standards (Combined Curriculum Document). A copy of this correlation is available on request and can be found on our website at www.saxonmath.com.

Teacher Edition

9781602773042 $95.00
Saxon Math Algebra 2, 4th Edition – Teacher's Edition

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Ancillary Items

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ISBN
**9781602773035**

Contract Price
$69.00

Grade
9, 10, 11, 12

TYPE
P1



Author
Saxon, an imprint of HMH Supplemental Publishers Inc.

Edition
4th

Content
High School Mathematics

Readability
7.8 (Dale-Chall, Fry, Ragor, Flesch)

Accessibility
Nimas

Research
http://saxonpublishers.harcourtachieve.com/HA/Resources/ResourceCenter/RCHome.aspx

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| Copyright - 2009 | Edition - 4th | Readability - 7.8 (Dale-Chall, Fry, Ragor, Flesch) |
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| Teacher Edition ISBN if applicable ..... 9781602773042 | | |

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**Overall Recommendation:** **Recommended as BASAL**

**if this box is not checked, the evaluators have chosen NOT recommend as basal**

**Overall Strengths, Weaknesses, Comments:**

**The text contains the POS content for Algebra 2. It would not be appropriate for any other mathematics course at the high school level. The text is arranged by lessons rather than by chapters. The assessments are not provided in the student or teacher edition. There is a website available for student support. Overall, the text is not engaging and does not provide many diagrams and real-life examples.**

| | |
|---|---|
| NIMAC Accessibility | N |
| Ancillary | No |
| Free with Purchase | Yes |
| Research | Yes |

http://saxonpublishers.harcourtachieve.com/HA/Resources/ResourceCenter/RCHome.aspx

Hardbound textbook. Prepares students for Calculus & includes embedded geometry instruction. Reinforces trigonometry concepts & provides practice with statistics. Real-world problems and applications for other subjects are included.

## CRITERIA

This basal resource …

**A. Encompasses KY Content Standards & Grade Level Expectations** **Strong Evidence**

Text is designed to be used in an elective course outside the Program of Studies

**1) Includes the 5 Big Ideas of mathematics to the following extent:**

| | |
|---|---|
| **a) Number Properties and Operations** | Strong Evidence |
| **b) Measurement** | Strong Evidence |
| **c) Geometry** | Not Applicable |
| **d) Data Analysis and Probability** | Strong Evidence |
| **e) Algebraic Thinking** | Strong Evidence |

| | |
|---|---|
| **2) Addresses content-specific enduring understandings from the related Program of Studies standards.** | Strong Evidence |
| **3) Addresses content-specific skills and concepts from the related Program of Studies standards.** | Strong Evidence |
| **4) Content addressed is current, relevant and non-trivial** | Strong Evidence |
| **5) Provides opportunities for critical thinking/reasoning** | Moderate Evidence |

**6) Strengths, Weaknesses, Comments:**

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

The content covers the POS for an Algebra 2 course. There are some opportunities for critical thinking but not an overwhelming number of questions.

## B. Functionality & Suitability — Strong Evidence

**1) Suitability** — **Strong Evidence**

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

**2) Content quality** — **Strong Evidence**

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

**3) Connections to Literacy** — **Moderate Evidence**

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text
  *Note: may apply to either student or teacher editions*

**4) Connections to Technology** — **Strong Evidence**

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

**5) Support for Diverse Learners** **Strong Evidence**

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties
  *Note: may apply to either student or teacher editions*

**6) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

There is little opportunity to write about mathematics. Ther reading level is age appropriate, but explanations are short in some areas. There is vocabulary embedded in the writing, but no use of objectives for the students. There are technology labs included in the lessons as well as a website for student resources. There is support for ESL, differentiation, gifted and talented, and students with learning difficulties in the teacher edition.

## C. Supports Inquiry and Skill Development — Moderate Evidence

**1) Promotes Inquiry, research and Application of Learning** Moderate Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  *Note: may apply to either teacher or student edition*

**2) Skill Development** Moderate Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  *Note: may apply to either teacher or student edition*

**3) Strengths, Weaknesses, Comments:**

The text does not provide cummulative assessments. There are activities, labs, and exercises in the student text. These provided opportunities for higher-order thinking. However, cummulative assessments are located in ancillary materials. The text is not divided into chapters, but rather individual lessons to be completed in succession with cummulative assessments and performance assessments spaced throughout.

**D. Supports Best Practices of Teaching and Learning** **Moderate Evidence**

**1) Engages Students** Moderate Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  *Note: may apply to either teacher or student edition*

**2) Uses Assessment to Inform Instruction** Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  *Note: may apply to either teacher or student edition*

**3) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

The text includes very few pictures, diagrams, or displays for the students. There is no attempt to engage the students in real-life problems or situations in the instruction. While the activities do address this, they are after the lessons have taken place. There are varying levels of questions in the exercises and the teacher edition provides extensions to the problems and math conversations for group discussion.

**E. Has an Organization/ Format that Supports Learning and Teaching** **Moderate Evidence**

**1)** Organizational Quality Moderate Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources

- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

**2) Essential Components (beyond student and teacher text)** Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

**3)** Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The organization of the text is different from the typical text. There are no chapters, only integrated lessons throughout. There is web-based support for the students as well as technology labs. The reading level is grade appropriate, but the written instruction is not engaging and very direct and does not include objectives. The students are not informed as to how the mathematics could possibly relate to their lives. There are no essential components in addition to the teacher and student text.

**F. Has available Ancillary/ Gratis Materials**

*Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*

**Strong Evidence**

**1) Ancillary/Gratis Materials**

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

**2) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The ancillary course material includes course assessments, multilingual glossary, technology lab masters, standardized test practice, reteaching masters, and challenge and enrichment exercises. The course assessments include diagnostic tests, cumulative assessments, performance tasks, and end of the year tests.